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PLANTING
Town Creek Planting Study

March 16, 1955

TOWN CREEK PLANTING STUDY

This study was initiated the spring of 1954 by Timber Management with the assistance of Research in the design.

The study consists of various site treatment, 2-0 and 2-1 ponderosa pine stock, as well as regular and special planting procedure. Regular planting was by shovel used as a bar. Special planting was by shovel, digging a hole and setting in the tree.

Average on regular planting - 400 trees per man day

Average on special planting - 180 trees per man day

Regular planting A

Special planting 2-1 stock B

Special planting 2-0 stock C

No site treatment 1

Tractor stripping 2

Tractor stripping and planting in plow furrow 3

Several counts made the last of October are as follows:

Strip No.	Planting Stock	Planting Procedure	Site Treatment	No. Planted	No. Dead	Percent Survival
A-1	2-1	Regular	None	3,372	948	71.89
A-2	2-1	"	Tractor stripping	4,070	282	93.07
A-3	2-1	"	Tractor & plow	4,140	134	96.76
B-1	2-1	Special	None	2,962	238	91.96
B-2	2-1	"	Tractor stripping	4,021	58	98.56
B-3	2-1	"	Tractor and plow	4,155	40	99.03
C-1	2-0	"	None	2,090	435	79.18
C-2	2-0	"	Tractor stripping	4,113	137	96.67
C-3	2-0	"	Tractor and plow	4,463	117	97.38

A. Method (11,582 planted 1364 dead) - 88.22% survival
B Method (11,138 planted 336 dead) - 96.98% survival
C Method (10,666 planted 716 dead) - 93.54% survival

No site treatment (8424 planted - 1,621 dead) - 80.76% survival
Tractor stripped (12,204 planted - 477 dead) - 96.17% survival
Tractor stripped - plow furrow (12,758 planted - 318 dead) - 97.50% survival

Total trees planted	33,386
Total trees dead	2,416
Over-all survival	92.77%

Trees planted at the same time and adjacent to the study area total 20,300. Survival was from 7% regular plant in untreated area to 100% in special plant in plow furrows through the brush.

Total area planted - 138 acres. 90 acres within the study area.

15-3/4 miles was stripped of brush with a D-7 tractor and bulldozer (84 hours).

17½ miles of plow furrow with OC-3 tractor and Talladega plow.

19,403 trees were staked (every other tree).

3,648 stakes were painted (every fifth stake).

The tractor work and plowing were finished last October for planting this spring. The same design will be followed as last spring.

In addition, this spring 2000 Jeffrey pine and 5000 1-1 ponderosa pine will be planted in separate plantations. One half the trees planted in untreated areas are to be freed of shade by clipping the brush away from them with a Hafco brushette.

The 2-1 special trees planted in plowed furrows indicated much more vigor than any others.

This region has several hundred thousand acres in our best pine sites idle at the present time due to fire and early logging and brush disposal methods. These areas should be planted. No headway could be made in these areas until 1958 because of the absence of adequate planting stock. By 1958 we should be in a position to plant in a big way and assured of success if P&M dollars could be made available.